

L Number	Hits	Search Text	DB	Time stamp
1	78	(D13/101).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:21
2	285	(D18/26).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:22
3	0	("(electrodeandtrapeziod)").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:23
4	0	(elelctrode and trapezoid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:23
5	2548	(electrode and trapezoid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:26
6	379	electrode and pixel and trapezoid	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 16:26

L Number	Hits	Search Text	DB	Time stamp
1	0	("LCD or Liquid near crystal near display) and (in near plane near switching) and (christmass near tree near electrode)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:15
2	0	(LCD or Liquid near crystal near dispaly) and (in near plane near switching) and (christmass near tree near electrode)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:15
3	336	(LCD or Liquid near crystal near dispaly) and (in near plane near switching)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:15
4	0	(pixel near electrode) and (christmass near tree)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:16
5	266	(pixel near electrode) and (trapezoid\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:17
6	11	((LCD or Liquid near crystal near dispaly) and (in near plane near switching)) and ((pixel near electrode) and (trapezoid\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/16 08:17

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L1: Entry 1 of 2

File: EPAB

Jan 22, 2003

PUB-NO: EP001278097A1

DOCUMENT-IDENTIFIER: EP 1278097 A1

TITLE: Electrode structure for an in-plane switching mode liquid crystal display device

PUBN-DATE: January 22, 2003

INVENTOR-INFORMATION:

NAME

COUNTRY

YANG, KIE-HSIUNG

CN

INT-CL (IPC): G02 F 1/1343

EUR-CL (EPC): G02F001/1343

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC
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☐ 2. Document ID: EP 1300722 A1 US 20020131005 A1 EP 1278097 A1

L1: Entry 2 of 2

File: DWPI

Apr 9, 2003

DERWENT-ACC-NO: 2003-066984

DERWENT-WEEK: 200325

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TITLE: Electrode array structure for in-plane switching mode LCD, has continuous Z-shaped side wall of comb-shaped pixel electrode, arranged parallel between adjacent teeth of comb-shaped common electrode

INVENTOR: YANG, K

PRIORITY-DATA: 2001TW-0106221 (March 16, 2001), 2001EP-0306108 (July 16, 2001), 2002EP-0251034 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1300722 A1	April 9, 2003	E	000	G02F001/1343
US 20020131005 A1	September 19, 2002		020	G02F001/1343
EP 1278097 A1	January 22, 2003	E	000	G02F001/1343

INT-CL (IPC): G02 F 1/1343

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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Term	Documents
EP	3745132
EPS	2936
"1278097"	7
1278097S	0
(EP ADJ "1278097").USPT,JPAB,EPAB,DWPI,TDBD.	2
(EP 1278097).USPT,JPAB,EPAB,DWPI,TDBD.	2

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Electrode structure for an in-plane switching mode liquid crystal display device

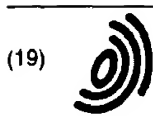
Patent Number: EP1278097
Publication date: 2003-01-22
Inventor(s): YANG KIE-HSIUNG (CN)
Applicant(s): HANNSTAR DISPLAY CORP (TW)
Requested Patent: ☐ EP1278097
Application Number: EP20010306108 20010716
Priority Number(s): EP20010306108 20010716
IPC Classification: G02F1/1343
EC Classification: G02F1/1343A8
Equivalents:
Cited patent(s): [US5745207](#); [US5905556](#); [US6137557](#); [US6141078](#); [JP7191336](#)

Abstract

An electrode structure for a pixel (42) of an in-Plane Switching mode LCD comprises a plurality of teeth (38b,38c,38d) of a comb-shaped common electrode extending in a first lengthwise direction, and a plurality of teeth of a comb-shaped pixel electrode extending in a second lengthwise direction, wherein each tooth of the pixel electrode is disposed between adjacent teeth of the common electrode. Each tooth of the common electrode has a rectangular shape and each tooth of the pixel electrode is formed by lengthwise linking of trapezoids or inverted trapezoids. In a further embodiment each tooth of the pixel electrode has a rectangular shape and each tooth of the common electrode is formed by lengthwise linking of trapezoids or inverted trapezoids. In a third embodiment each tooth of the pixel electrode and each tooth of the common electrode is formed by lengthwise linking of inverted trapezoids. 

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612591503-
611371552
614831526



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Office européen des brevets



(11) EP 1 278 097 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
22.01.2003 Bulletin 2003/04

(51) Int Cl.7: G02F 1/1343

(21) Application number: 01306108.0

(22) Date of filing: 16.07.2001

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR
Designated Extension States:
AL LT LV MK RO SI

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(54) Electrode structure for an in-plane switching mode liquid crystal display device

(57) An electrode structure for a pixel (42) of an In-Plane Switching mode LCD comprises a plurality of teeth (38b, 38c, 38d) of a comb-shaped common electrode extending in a first lengthwise direction, and a plurality of teeth of a comb-shaped pixel electrode extending in a second lengthwise direction, wherein each tooth of the pixel electrode is disposed between adjacent teeth of the common electrode. Each tooth of the common electrode has a rectangular shape and each tooth of the pixel electrode is formed by lengthwise linking of trapezoids or inverted trapezoids. In a further embodiment each tooth of the pixel electrode has a rectangular shape and each tooth of the common electrode is formed by lengthwise linking of trapezoids or inverted trapezoids. In a third embodiment each tooth of the pixel electrode and each tooth of the common electrode is formed by lengthwise linking of inverted trapezoids.

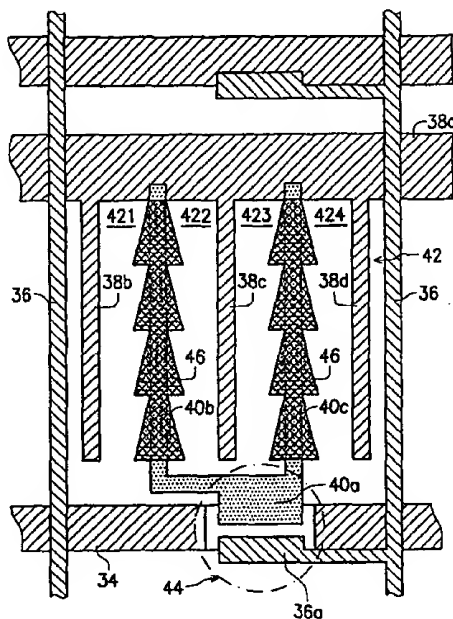


FIG. 4A

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